

# FILE NOTATIONS

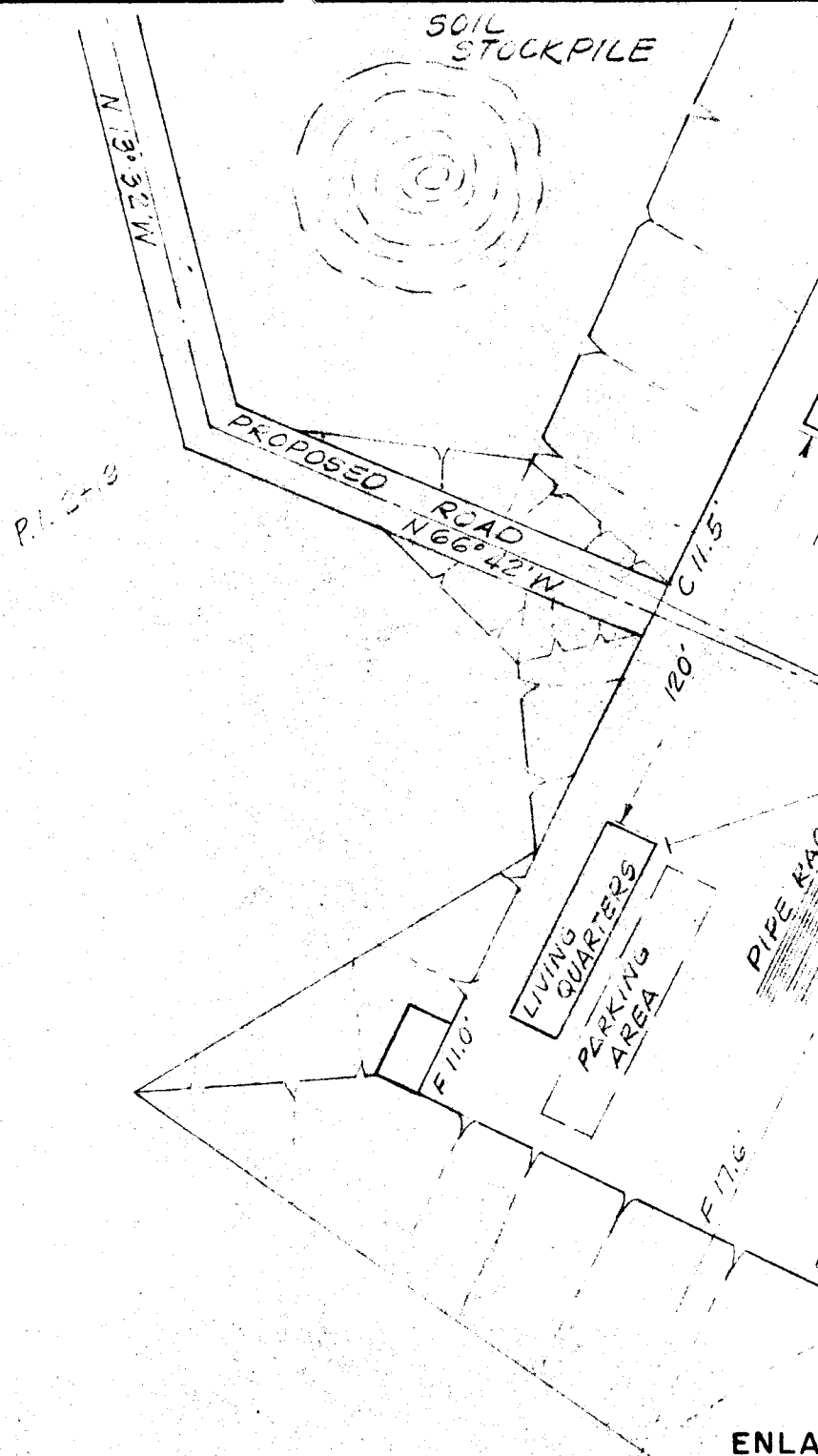
Entered in NID File	<input checked="" type="checkbox"/>	Checked by Chief	_____
Entered On S R Sheet	_____	Copy NID to Field Office	_____
Location Map Pinned	_____	Approval Letter	_____
Card Indexed	<input checked="" type="checkbox"/>	Disapproval Letter	_____
I W R for State or Fee Land	_____		

## COMPLETION DATA:

Date Well Completed	4/14/75	Location Inspected	_____
OW	WW	TA	_____
GW	OS	PA	_____
		Bond released	_____
		State of Fee Land	_____

## LOGS FILED

Driller's Log	<input checked="" type="checkbox"/>				
Electric Logs (No. )	<input checked="" type="checkbox"/>				
E	I	E-I	GR	GR-N	Micro
Lat	Mi-L	Sonic	Others		



#### GENERAL NOTES:

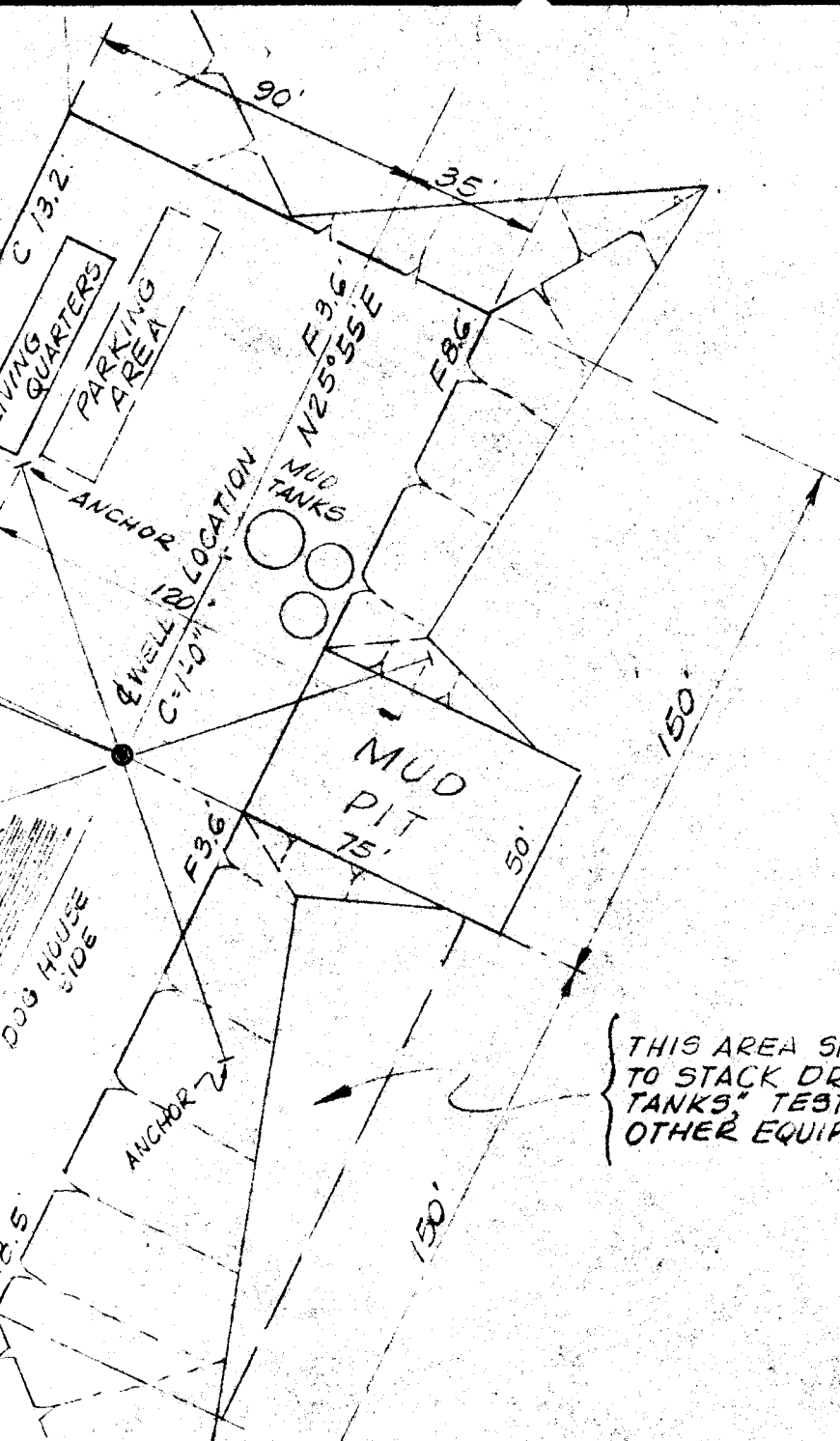
At sites where topsoil is present, same is to be removed and stored on the adjacent land for restoration of the site when required.

Mud pit and garbage pit are to be fenced, unlined.

For well location profiles see Dwg. N<sup>o</sup> M-12372

Area for well location = 1.0 acres.

For original well location plot for well 31-5 see Dwg. N<sup>o</sup> M-12320 and M-12321.

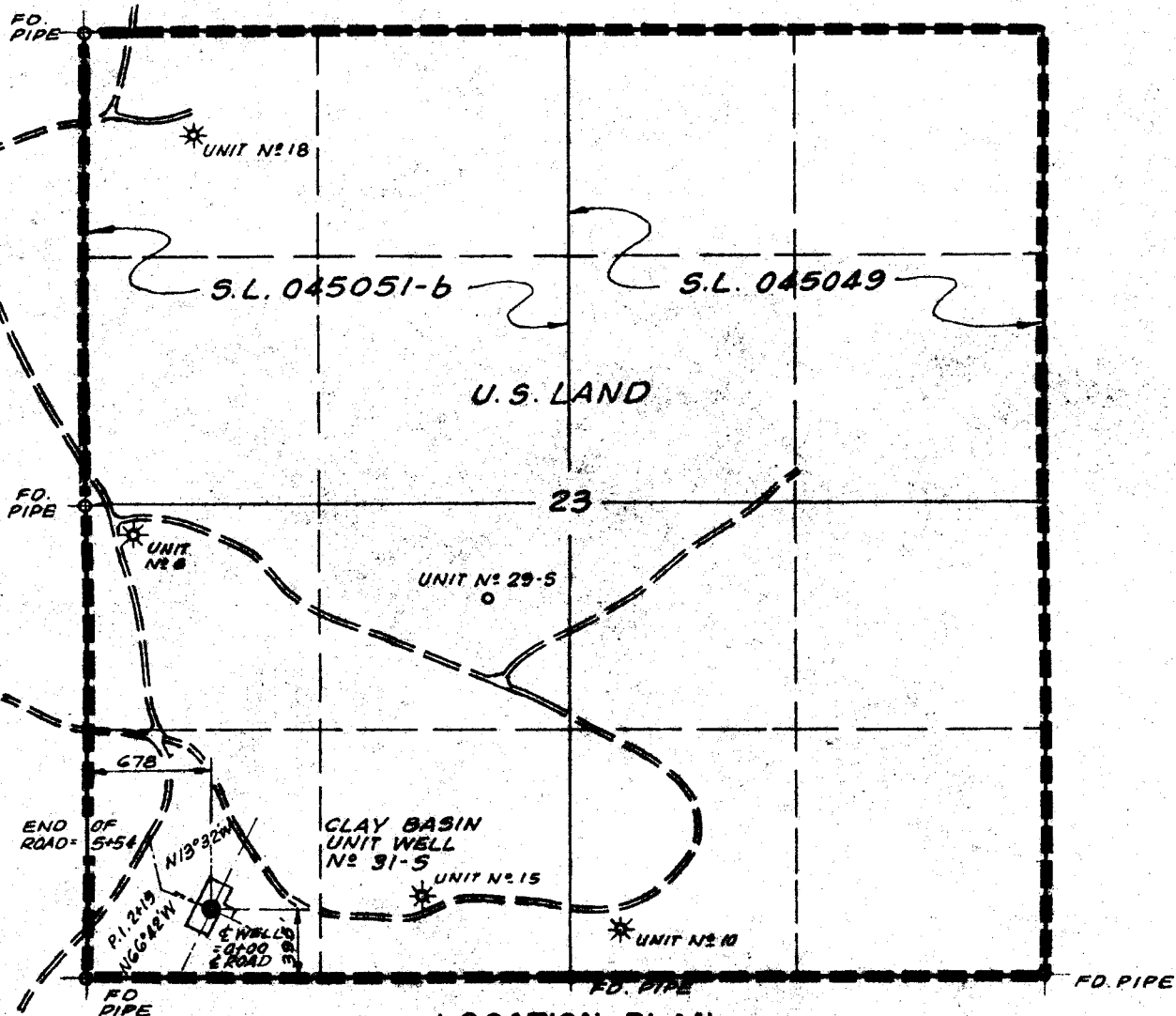


GRADED WELL SITE PLAN  
SCALE 1" = 50'

DRILLING W.O.

LEGEND	ENGINEERING RECORD
WELL	SURVEYED BY J. Gottfredson 1-17-77
STONE CORNER	REFERENCES G.L.O. PLAT <input checked="" type="checkbox"/> U.S.G.S. QUAD. MAP <input type="checkbox"/>
PIPE CORNER	LOCATION DATA
	FIELD Clay Basin
	LOCATION: SW 1/4, SW 1/4, Sec. 23, T. 3 N., R. 24 E., Salt Lake Meridian 395' FSL, 678' FWL
	Daggett County, Utah
	WELL ELEVATION: 6596 (as graded) by electronic vertical angle elevations from MFS Co. B.M. & 123

T3N, R24E, SLM



LOCATION PLAN  
SCALE 1"=1000'

This is to certify that the above plat was prepared from field notes of actual surveys made by me or under my supervision and that the same are true and correct to the best of my knowledge.

*[Signature]*  
ENGINEER

UTAH REGISTRATION L.S. N° 3521

REVISIONS			
NO.	DESCRIPTION	DATE	BY



**MOUNTAIN FUEL**  
SUPPLY COMPANY  
ROCK SPRINGS, WYOMING

CERTIFIED WELL LOCATION  
AND  
WELL SITE PLAN

CLAY BASIN UNIT WELL N° 31-5

DRAWN: 1-20-77 AHW

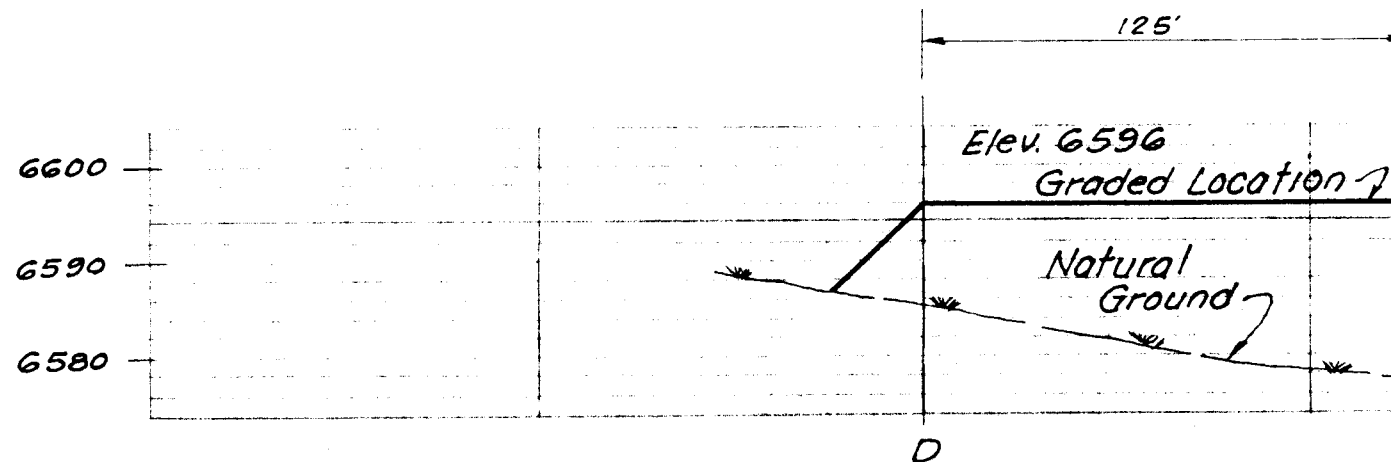
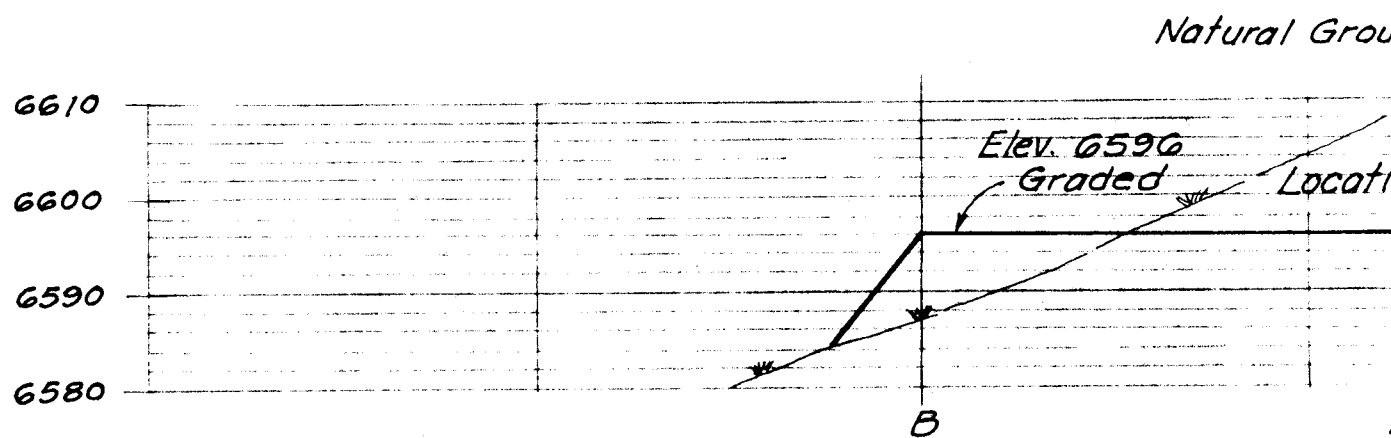
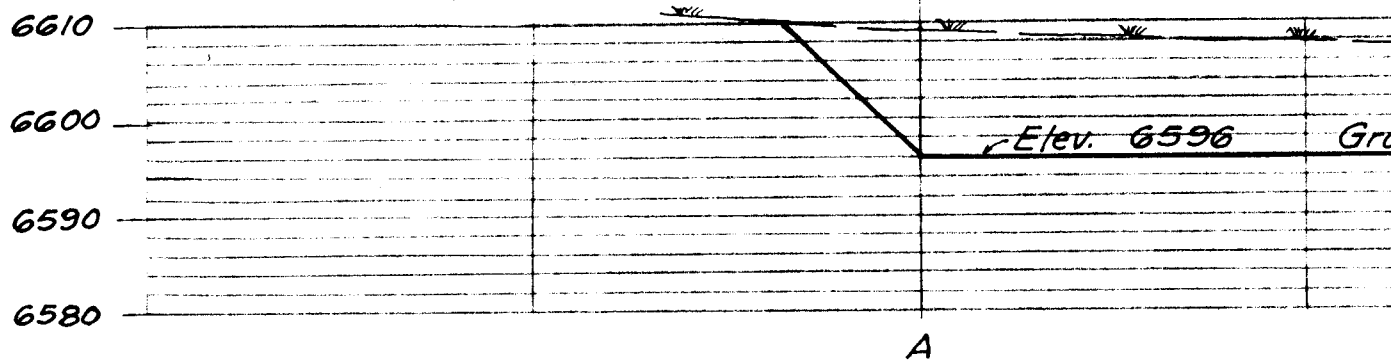
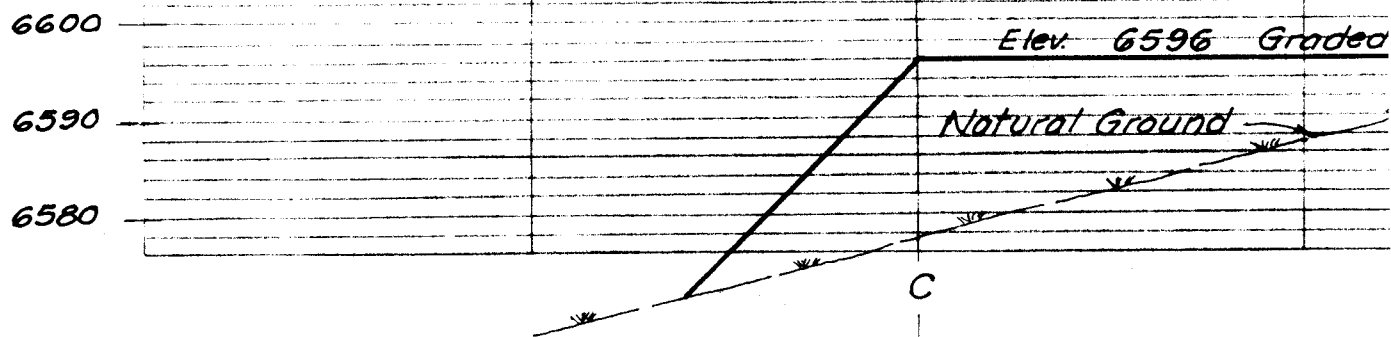
SCALE: AS NOTED

CHECKED: GeL

DRWG. NO. M-12371

APPROVED: RWH

1/2



PROFILE SECTION  
PROPOSED GRADED LOCATION

SCALE : 1" = 50'  
1" = 20'

Location 7

300'

B

Natural  
Ground

Proposed Location

D

and

in

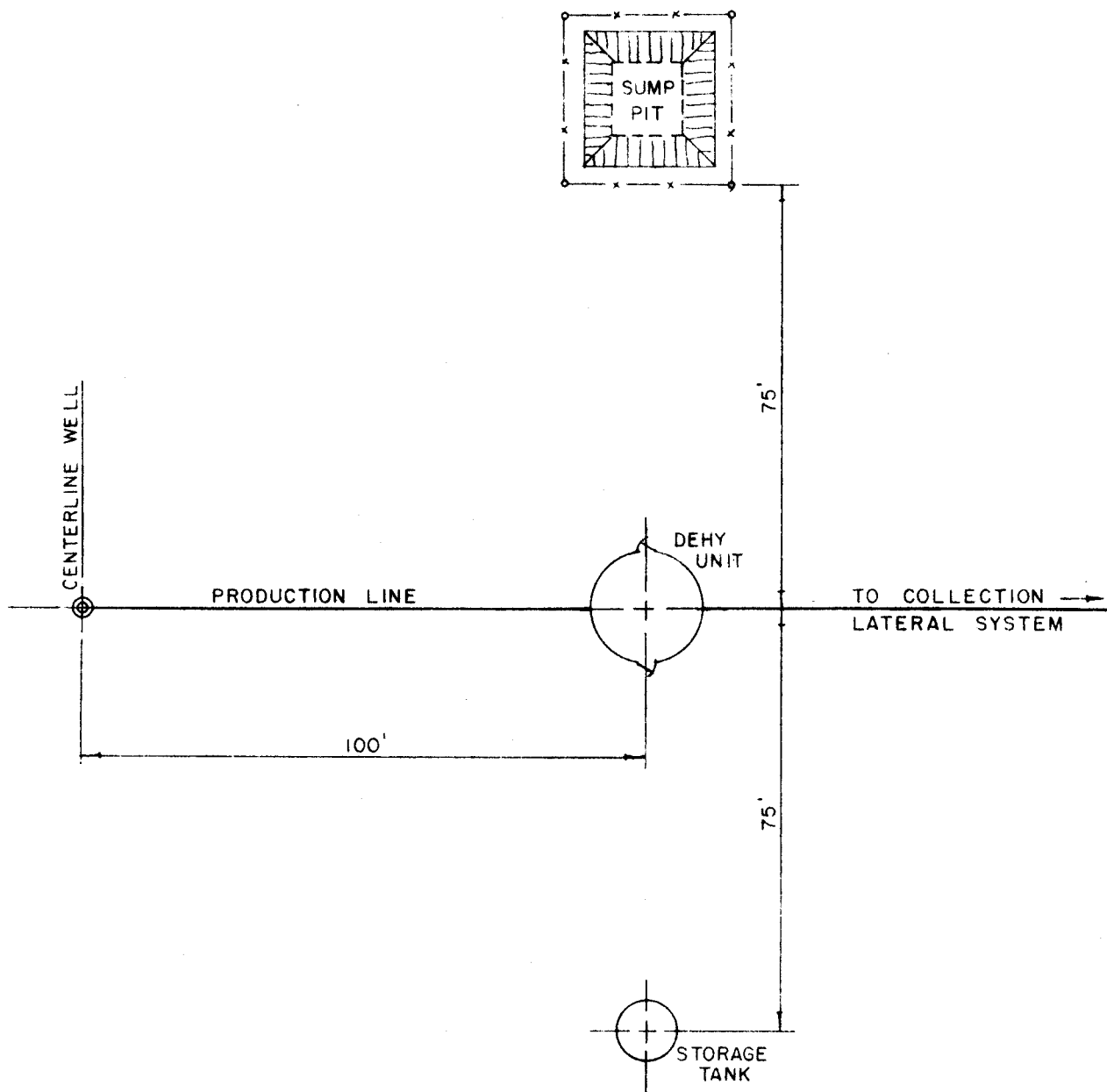
WELL  
LOCATION


HORIZ.  
VERT.

Proposed well location site see Dwg. M-12372.

For profile of original well location of  
Well No 31-5 see Dwg. No M-12321 (void).





REVISIONS				 <b>MOUNTAIN FUEL</b> SUPPLY COMPANY ROCK SPRINGS, WYOMING	
NO.	DESCRIPTION	DATE	BY		
				<b>TYPICAL PRODUCTION FACILITIES LAYOUT</b> FOR <b>CLAY BASIN UNIT WELL N° 31-S</b>	
				DRAWN: 7/9/76 FJC CHECKED: GeL   SMF APPROVED: RWH	SCALE: NONE DRWG. NO. <b>M-12205</b>



UNITED STATES  
DEPARTMENT OF THE INTERIOR  
GEOLOGICAL SURVEY

## APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

1a. TYPE OF WORK DRILL <input checked="" type="checkbox"/> DEEPEN <input type="checkbox"/> PLUG BACK <input type="checkbox"/>		5. LEASE DESIGNATION AND SERIAL NO. SLC - 045051 b
b. TYPE OF WELL OIL WELL <input type="checkbox"/> GAS WELL <input type="checkbox"/> OTHER Gas Storage <input checked="" type="checkbox"/>		6. IF INDIAN, ALLOTTEE OR TRIBE NAME -
2. NAME OF OPERATOR Mountain Fuel Supply Company		7. UNIT AGREEMENT NAME Clay Basin Gas Storage Agreement
3. ADDRESS OF OPERATOR P. O. Box 1129 Rock Springs, Wyoming 82901		8. FARM OR LEASE NAME Unit Well
4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements) At surface 395' FSL, 678' FWL SW SW At proposed prod. zone		9. WELL NO. 31-S
14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE* 41 miles south of Rock Springs, Wyoming		10. FIELD AND POOL, OR WILDCAT Clay Basin Gas Storage
15. DISTANCE FROM PROPOSED* LOCATION TO NEAREST PROPERTY OR LEASE LINE, FT. (Also to nearest drlg. unit line, if any) 395' -		11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA SW SW 23-3N-24E
16. NO. OF ACRES IN LEASE 1900.74		12. COUNTY OR PARISH Daggett
17. NO. OF ACRES ASSIGNED TO THIS WELL -		13. STATE Utah
18. DISTANCE FROM PROPOSED LOCATION* TO NEAREST WELL, DRILLING, COMPLETED, OR APPLIED FOR, ON THIS LEASE, FT. 1150' Unit #15		19. PROPOSED DEPTH 6000'
20. ROTARY OR CABLE TOOLS Rotary		21. APPROX. DATE WORK WILL START* After Unit #30-S
22. ELEVATIONS (Show whether DF, RT, GR, etc.) GR 6596'		

## 23. PROPOSED CASING AND CEMENTING PROGRAM

SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	QUANTITY OF CEMENT
12-1/4	9-5/8" new	36# K-55	300'	180 sx, 3% CaCl
8-3/4	7" new	23# K-55	6000'	To be determined

We would like to drill the subject well to an estimated depth of 6000', anticipated formation tops are as follows: Mancos at the surface, Frontier at 5450', Mowry at 5650', and Dakota at 5800'.

Mud will be adequate to contain formation fluids and in sufficient quantities to efficiently drill the well; blowout preventers will be checked daily and pressure tested after each string of casing is set; no cores, no DST's; no mud logging unit; 20 days drilling time; no abnormal temperatures, pressures or H<sub>2</sub>S anticipated; probably run DIL, Sonic, Density, and CNL logs.

APPROVED BY THE DIVISION OF  
OIL, GAS, AND MINING

DATE: 1-31-77

BY: *Chas. B. Light*APPROVED IN ACCORDANCE WITH THE ORDER ISSUED  
IN CAUSE NO. 164-1

IN ABOVE SPACE DESCRIBE PROPOSED PROGRAM: If proposal is to deepen or plug back, give data on present productive zone and proposed new productive zone. If proposal is to drill or deepen directionally, give pertinent data on subsurface locations and measured and true vertical depths. Give blowout preventer program, if any.

24. SIGNED *R. S. Myers* TITLE Manager, Drilling and Petroleum Engineering DATE Jan. 25, 1977  
(This space for Federal or State office use)  
PERMIT NO. 43-009-30027 APPROVAL DATE

APPROVED BY \_\_\_\_\_ TITLE \_\_\_\_\_ DATE \_\_\_\_\_  
CONDITIONS OF APPROVAL, IF ANY:

# CHECKLIST 3000psi EQUIPMENT

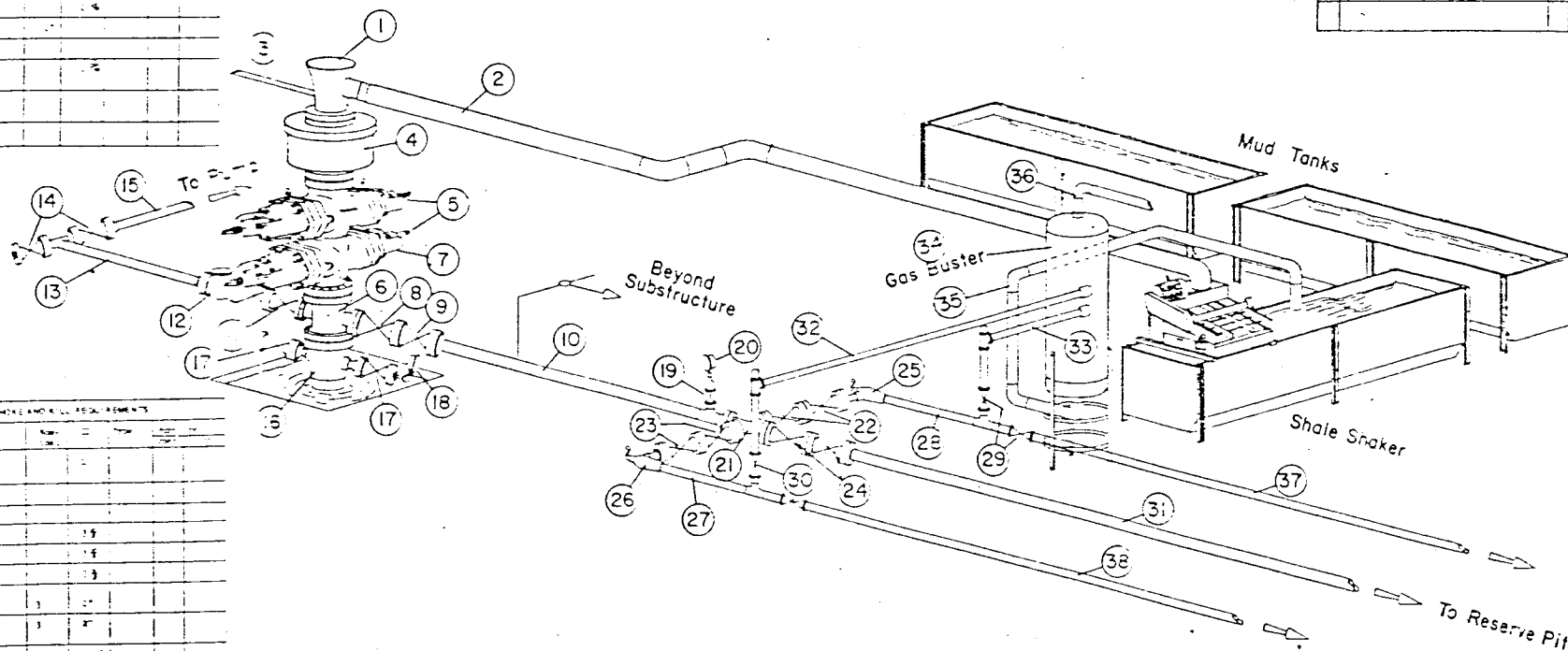
Manufacturer and Supplier to Mount from Check A.

STANDARD STACK REQUIREMENTS					
No.	Item	Qty	Unit	Notes	Remarks
1	INTAKE VALVE				
2	PIPELINE				
3	TRUCK HOSE	27			
4	ADDITIONAL TRANSDUCER				
5	ONE 3000 PSI 3/4" DIA. 10' LONG HOSE				
6	PIPELINE 1000 PSI 1/2" 10' LONG				
7	OR EQUIPMENT TO 10' 1000 PSI 1/2" LONG				
8	VALVE HOSE	15			
9	W/ 1000 PSI 1/2" DIA. 10' LONG	15			
10	TRUCK HOSE				
11	VALVE HOSE				
12	TRUCK HOSE				
13	TRUCK HOSE				
14	TRUCK HOSE				
15	TRUCK HOSE				
16	TRUCK HOSE				
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33	TRUCK HOSE				
34	TRUCK HOSE				
35	TRUCK HOSE				
36	TRUCK HOSE				
37	TRUCK HOSE				
38	TRUCK HOSE				

## MOUNTAIN FUEL SUPPLY COMPANY 3000 psi BLOWOUT PREVENTION EQUIPMENT

SPECIAL CHECK AND RLL REQUIREMENTS					

SPECIAL STACK REQUIREMENTS					



STANDARD CHECK AND RLL REQUIREMENTS					
No.	Item	Qty	Unit	Notes	Remarks
19	VALVE HOSE				
20	CONDUIT TRANSDUCER				
21	TRUCK HOSE				
22	VALVE HOSE	15			
23	VALVE HOSE	15			
24	VALVE HOSE	15			
25	TRUCK HOSE	3			
26	TRUCK HOSE	3			
27	TRUCK HOSE	2			
28	TRUCK HOSE	2			
29	TRUCK HOSE	2			
30	TRUCK HOSE	2			
31	TRUCK HOSE	2			
32	TRUCK HOSE	2			
33	TRUCK HOSE	2			
34	TRUCK HOSE	2			
35	TRUCK HOSE	2			
36	TRUCK HOSE	2			
37	TRUCK HOSE	2			
38	TRUCK HOSE	2			

Well Name Clay Basin Unit Well No. 31-S

Location \_\_\_\_\_

<u>Wellhead Equipment</u>	<u>Size</u>	<u>Pressure Rating</u>	<u>Pressure Test</u>
Surface Casing Flange	<u>10</u>	<u>3,000</u>	<u>        </u>
Casing Spool	<u>        </u>	<u>        </u>	<u>        </u>
Tubing Spool	<u>10 x 6</u>	<u>3,000</u>	<u>6,000</u>
Tubing Bonnet	<u>10 x 4</u>	<u>3,000</u>	<u>6,000</u>

<u>Blow Out Preventer</u> (Top to Bottom)	<u>Size</u>	<u>PSI Rating</u>	<u>PSI Test</u>	<u>Tag</u>	<u>Runs</u>
	<u>10</u>	<u>3,000</u>	<u>6,000</u>	<u>        </u>	<u>Blind</u>
	<u>10</u>	<u>3,000</u>	<u>6,000</u>	<u>        </u>	<u>4-1/2</u>
	<u>        </u>	<u>        </u>	<u>        </u>	<u>        </u>	<u>        </u>
<u>Gas Buster</u>	<u>        </u>	<u>X</u>	<u>Debasser</u>	<u>        </u>	<u>X</u>
	<u>Yes</u>	<u>No</u>		<u>Yes</u>	<u>No</u>

Kill or Control Manifold

<u>2</u>	<u>3,000</u>	<u>6,000</u>	<u>No</u>
<u>Size</u>	<u>Pressure Rating</u>	<u>Pressure Rating Test</u>	<u>Hydraulic Valves</u>

<u>Auxiliary Equipment</u>	<u>Kelly Cock</u>	<u>X</u>	<u>        </u>
		<u>Yes</u>	<u>No</u>

<u>Monitoring Equipment on Mud System</u>	<u>        </u>	<u>X</u>
	<u>Yes</u>	<u>No</u>

<u>Full Opening Drill Pipe Stabbing Valve on Floor</u>	<u>X</u>	<u>        </u>
	<u>Yes</u>	<u>No</u>

<u>Type of Drilling Fluid</u>	<u>X</u>	<u>        </u>	<u>        </u>	<u>        </u>
	<u>Water Base Mud</u>	<u>Air</u>	<u>Gas</u>	<u>Oil Base Mud</u>

<u>Anticipated Bottom Hole Pressure</u>	<u>500</u>
	<u>PSI</u>

DEVELOPMENT PLAN FOR U.S. (S. APPROVAL OF SURFACE USE  
MOUNTAIN FUEL SUPPLY COMPANY DRILLING WELLS

Well Name - Clay Basin Well No. 31-S

Field or Area - Clay Basin, Utah

1. Existing Roads -

- A) Proposed well site as staked - Refer to well location plan M-12320 for location of well, access road and directional reference stakes.
- B) Route and distance from nearest town or locatable reference point to where well access route leaves main road - Refer to lateral map M-9030 From the Wyoming-Utah state line to Rock Springs, Wyoming is 50 miles.
- C) Access road to location - Refer to lateral map M-9030 and well site map M-12320 for access road from Wyoming-Utah state line to Clay Basin unit No. 31-S.
- D) If exploratory well, all existing roads within a 3-mile radius of well site - Not an exploratory well.
- E) If development well, all existing roads within a 1-mile radius - Refer to lateral map M-9030 for existing roads.
- F) Plans for improvement and/or maintenance of existing roads - No existing roads will be improved. All existing roads will be maintained as needed by Mountain Fuel equipment.

2. Planned Access Road -

- A) Width - 16' wide from shoulder to shoulder.
- B) Maximum grade - The maximum grade on the road is 8 percent.
- C) Turnouts - No turnouts will be constructed.
- D) Drainage design - A drainage ditch on the uphill side of the road will be constructed. It will be a minimum of one foot below the surface of the road. No water diversion ditches are anticipated.
- E) Location and size of culverts and description of major cuts and fills -
  - 1) For culvert size and location see drawing No. M-12320.
  - 2) No side hill cuts will be made.
- F) Surfacing material - No surfacing material will be needed either on the road or location.
- G) Necessary gates, cattle guards or fence cuts - No cattle guards, gates, or fence cuts are anticipated.
- H) New or reconstructed roads - The new road is center line flagged.

3. Location of Existing Wells -

- A) Water wells - None within a one mile radius.
- B) Abandoned wells - None within a one mile radius.
- C) Temporarily abandoned wells - None within a one mile radius.

- D) Disposal wells - None within a one mile radius.
  - E) Drilling wells - Both Clay Basin 24 and 25 are proposed wells and should be drilling soon.
  - F) Producing wells - Clay Basin unit well Nos. 23, 12, 17, & 18 are productive gas well within a one mile radius.
  - G) Shut-in wells - No shut-in wells within a one mile radius.
  - H) Injection wells - Clay Basin wells 4, 6, & 10 are injection/withdrawal wells.
  - I) Monitoring or observation wells for other resources - No monitoring or observation wells within a one mile radius.
4. Location of Existing And/Or Proposed Facilities - Refer to lateral map M-9030.
- A) 1) Tank batteries - No tank batteries within a one mile radius.
  - 2) Production facilities - Each productive gas well has its own production equipment. Also, a compressor plant is located near unit 3. Also, a compressor plant for injection is being constructed near unit 3.
  - 3) Oil gathering lines - No oil gathering lines are located in the Clay Basin area.
  - 4) Gas gathering lines - Refer to area map M-9030. Laterals Nos. 55, 46, and 47 are buried gas lines. Lateral Nos. 270, 273, and 403 are surface gas lines.
  - 5) Injection lines - Several injection/withdrawal lines are located within the area. Refer to lateral map M-9030.
  - 6) Disposal lines - No disposal lines are located within a one mile radius.
- B) 1) Proposed location and attendant lines by flagging if off the well pad - The well will be used as a gas injection/withdrawal well. A line will be constructed from the well to the compressor site as shown on drawing M-9030. The line will be a buried 6 inch.
  - 2) Dimensions of facilities - Refer to drawing No. M-12205.
  - 3) Construction methods and materials - No construction materials are anticipated. The dirt work will be done with a backhoe, i.e., ditches, dehy base, tank base, etc.
  - 4) Protective measures and devices to protect livestock and wildlife - The sump pit will be fenced as shown on drawing M-12205.
- C) Plans for rehabilitation of disturbed area no longer needed for operations after construction is completed - After construction is complete, areas of non-use will be restored and seeded.
5. Location and Type of Water Supply -
- A) Location of water - The water withdrawal point on Red Wash is located in the SW 1/4 of Section 22, T.12N., R. 105W. of the 6th P.M., Sweetwater County, Wyoming.
  - B) Method of transporting water - Water will be hauled by tank truck from Red Creek to Unit Well No. 24. The well access road, as shown on drawing M-9030, will be used as the water haul road.

- C) Water well to be drilled on lease - No water well will be drilled.
6. Source of Construction Material -
- A) Information - No construction material will be used.
- B) Identify if from Federal or Indian land -
- C) Where materials are to be obtained and used -
- D) Access roads crossing Federal or Indian lands -
7. Method for Handling Waste Disposal -
- A-D) Cutting, drilling fluids, produced fluids, and sewage will be placed in the mud pit.
- E) Garbage and other waste material will be placed in the burn pit.
- F) After drilling operations have been completed, the location will be cleared of all litter and the trash will be burned in the burn pit. The burn pit will be covered over. The mud pit liquids will be pumped out and dumped on the existing roads. The mud pit will be covered over.
8. Ancillary Facilities - There now is a camp approximately 1/2 mile to the east with housing and general camp facilities including a landing strip. Water is piped to the camp from a spring to the west. See drawing M-9030.
9. Well Site Layout - See drawing Nos. M-12320 and M-12321.
10. Plans for Restoration of Surface -
- A) After drilling operations, the well site will be cleared and cleaned and the burn pit filled in. Should the well be a dry hole, the surface will be restored to the extent that it will blend in with the landscape. The reserve pit liquids will be pumped out and dumped on the existing roads.
- B) Revegetation and rehabilitation of the location and access road will be done to comply with Bureau of Land Management recommendations.
- C) Prior to rig release, pits will be fenced and so maintained until clean up.
- D) If oil is in the mud pit, overhead flagging will be installed to keep birds out.
- E) Clean up will begin within two months after drilling operations have been completed and the land will be restored at this time.
11. Other Information - The location lies at the bottom of a hill. A wash is
- A) located both on the east side and the north side. The soil is sandy clay with gravel rock. The vegetation is sage brush, salt sage, and native grass. The access road bears west more or less and the soil and vegetation are the same as stated above.
- B) The surface belongs to the U.S. Government.
- C) Water can be located in Red Creek. The Clay Basin camp is occupied by Mountain Fuel personnel. No historical, archeological or cultural sites are in the area to my knowledge.
12. Lessee's or Operator's Representative -
- D. E. Dallas, Drilling Superintendent, P. O. Box 1129, Rock Springs, Wyoming 82901, telephone 307-362-5611.

13. Certification -

I hereby certify that I, or persons under my direct supervision, have inspected the proposed drillsite and access route; that I am familiar with the conditions which presently exist; that the statements made in this plan are, to the best of my knowledge, true and correct; and, that the work associated with the operations proposed herein will be performed by Mountain Fuel Supply Company and its contractors and sub-contractors in conformity with this plan and the terms and conditions under which it is approved.

Date November 22, 1976

Name D.E. Dallas  
Title Drilling Superintendent

cdk

STATE OF UTAH  
DIVISION OF OIL, GAS, AND MINING

\*\* FILE NOTATIONS \*\*

Date:

Jul-28-

Operator:

Mountain Fuel Supply

Well No.

Clay Basin Unit #131-S

Location:

Sec. 23 T. 3N R. 24E, County:

Daguerre

File Prepared

☒

Entered on N.I.D.

☒

Card Indexed

☒

Completion Sheet

☒

Checked By:

Administrative Assistant:

[Signature]

Remarks:

Unit - OK Order

Petroleum Engineer:

OK [Signature]

Remarks:

7

Director:

[Signature]

Remarks:

Include Within Approval Letter:

Bond Required

☐

Survey Plat Required

☐

Order No.

☐

Surface Casing Change

☐

to

Rule C-3(c), Topographical exception/company owns or controls acreage within a 660' radius of proposed site

O.K. Rule C-3

☐

O.K. In

Clay Basin

Unit

☒

Other:

Approved  
Letter Written



V

P

## INTEROFFICE COMMUNICATION

FROM T. M. Colson

Rock Springs, Wyoming  
CITY STATE

TO R. G. Myers

DATE March 2, 1977

SUBJECT Tentative Plan to Drill

Unit Well No. 31  
Clay Basin Field

Attached for your information and files is a tentative plan to drill the above-captioned well. This plan was written in accordance with the Geologic Prognosis prepared by D. L. Reese.

TMC/gm

Attachment

cc: R. D. Cash  
E. R. Keller (3)  
G. A. Peppinger (3)  
A. J. Marushack  
A. K. Zuehlsdorff  
D. E. Dallas  
A. J. Maser (3)  
J. E. Adney  
E. J. Widic  
B. M. Steigleder  
E. A. Farmer  
D. L. Reese  
U.S.G.S.  
State  
Paul Zubatch  
P. E. Files (4)

RECEIVED  
MAR 10 1977  
U.S. GEOLOGICAL SURVEY

From: C. R. Owen  
To: T. M. Colson

Rock Springs, Wyoming  
March 2, 1977

Tentative Plan to Drill  
Unit Well No. 31  
Clay Basin Field

This well will be drilled to total depth by \_\_\_\_\_ Drilling Company. One work order has been originated for the drilling and completion of this well, namely \_\_\_\_\_, Drill Unit Well No. 31, Clay Basin Field, located in the SW SW Sec. 23, T. 3 N., R. 24 E., Daggett County, Utah. An 8-3/4-inch hole will be drilled to a total depth of 6000 feet and 7-inch O.D. casing run. It is planned to complete the well as a gas storage well in the Dakota formation. Surface elevation is at 6596 feet KBM.

1. Drill 12-1/4-inch hole to approximately 330 feet KBM.
2. Run and cement approximately 300 feet of 9-5/8-inch O.D., 36-pound, K-55, 8 round thread, LT&C casing. The casing will be cemented by Dowell with 165 sacks of regular Type "G" cement, which represents theoretical requirements plus 100 percent excess cement for 9-5/8-inch O.D. casing in 12-1/4-inch hole with cement returned to surface. Cement will be treated with 775 pounds of Dowell D-43A. Plan on leaving a 10 foot cement plug in the bottom of the casing after displacement is completed. Floating equipment will consist of a Baker guide shoe. The top and bottom of all casing collars will be spot welded in the field and the guide shoe will be spot welded to the shoe joint in the Rock Springs Machine Shop. The bottom of the surface casing should be landed in such a manner that the top of the 10-inch 3000 psi casing flange will be at ground level. A cellar three feet deep will be required. Prior to cementing, circulate 50 barrels of mud. Capacity of the 9-5/8-inch O.D. casing is 24 barrels.
3. After a WOC time of 6 hours, remove the landing joint and wash off casing collar. Install a NSCo. Type "B" 10-inch 3000 psi regular duty casing flange tapped for 9-5/8-inch O.D. casing. Install a 2-inch extra heavy nipple, 6-inches long, and

a Demco (2000 psi WOG, 4000 psi test) ball valve on one side outlet of the casing flange and a 2-inch extra heavy bull plug in the opposite side. Install a 10-inch 3000 psi double gate hydraulically operated blowout preventer with blind rams in the bottom and 4-1/2-inch rams in the top and finish nipping up. After a WOC time of 12 hours, pressure test surface casing, all preventer rams, and Kelly-cock to 1000 psi for 15 minutes using rig pump and drilling mud. The burst pressure rating for 9-5/8-inch O.D., 36-pound, K-55, 8 round thread, LT&C casing is 3520 psi.

4. Drill 8-3/4-inch hole to the total depth of 6000 feet or to such depth as the Geological Department may recommend. The mud will consist of 2 percent potassium chloride water to 4500 feet. Mud up with the potassium Dexdrid Drispac system at this point to allow a 3 cc. water loss at 5750 feet. The 3 cc. water loss will be maintained from 5750 feet to total depth at 6000 feet. If lost circulation is encountered, only acid soluble lost circulation material will be used. A mud cleaner will be used from surface to total depth to remove undesirable solids from the mud system and to keep the mud weight to a minimum. A Company Geologist will be on location to check cutting samples; 10 foot samples from 5400 feet to total depth. Anticipated tops are as follows:

	Approximate Depth (Feet KBM)
Mancos	Surface
Frontier	5,450
Mowry	5,650
Dakota	5,800
Total Depth	6,000

5. Run a dual induction laterolog (2-inch linear scale and 5-inch logarithmic scale) and a compensated density/gamma ray/caliper from total depth at 6000 feet to 4000 feet. The 2000 feet logged represents the minimum footage for each log.
6. Assuming gas storage zones of good quality are present as indicated by log analysis, go into hole with 8-3/4-inch bit and drill pipe to total depth to condition mud prior to running production casing. Pull bit laying down drill pipe and drill collars.
7. Run 7-inch O.D. casing as outlined in Item No. I, General Information, through the deepest producing zone as indicated by log analysis. A Baker 7-inch O.D., 8 round thread, Type G circulating differential fillup collar and guide shoe will be run as floating equipment. Rig up Dowell and cement casing with 50-50 Pozmix cement. Bring cement top behind the 7-inch O.D. casing 1000 feet above the uppermost producing zone as indicated by log analysis. Circulate 300 barrels of drilling mud prior to beginning cementing operations. Capacity of the 7-inch O.D. casing is approximately 238 barrels. Cement requirements will be based on actual hole size as determined by the caliper portion of the formation density log. Rotate casing while circulating, mixing, and displacing cement. Displace cement with water. Bump plug with 2500 psi and hold for 15 minutes to pressure test casing. Minimum burst pressure of the 7-inch O.D., 23-pound, K-55 casing is 4360 psi.
8. Immediately after cementing operations are completed, land the 7-inch O.D. casing with full weight of casing on slips in the 10-inch 3000 psi casing flange and record indicator weight. Install NSCo. Type B 10-inch 3000 psi by 6-inch 3000 psi

tubing spool. Pressure test primary and secondary seals to 2500 psi for 5 minutes. Minimum collapse pressure for 7-inch O.D., 23-pound, K-55, 8 round thread, LT&C casing is 3280 psi. Install a steel plate on the 6-inch 3000 psi tubing spool flange.

9. Release drilling rig and move off location.
10. Move in and rig up a completion rig.
11. Install a 6-inch 5000 psi hydraulically operated double gate preventer with blind rams on bottom and 2-3/8-inch tubing rams on top.
12. After a WOC time of at least 50 hours, rig up Dresser Atlas and run bond log and perforating formation control log from plugged back depth to top of cement behind the 7-inch O.D. casing.
13. After a WOC time of at least 56 hours, pick up and run a 6-1/4-inch bit on 2-3/8-inch O.D., 4.7-pound, V-55, 8 round thread, EUE tubing to check plugged back depth. Rig up and displace drilling mud out of hole with drip oil. Pull and lay down 2-3/8-inch O.D. tubing.
14. Rig up Dresser Atlas and run a casing potential profile log from total depth to the bottom of the surface casing at 300 feet KB.
15. Rig up Dresser Atlas perforating truck and perforate the Dakota storage sand with 2 HPF jumbo jet shots. The interval to be perforated will be chosen after the open hole logging has been reviewed and evaluated.
16. Rig up Dresser Atlas and run a Baker Model FB-1 (size 87-40) as follows:
  - Baker Model FB-1 (4.0-inch I.D. through packer).
  - 6 foot Baker millout extension (4.0-inch I.D.).
  - 10 foot Baker seal bore protector (4.0-inch I.D.) changeover.

6 feet 3-1/2-inch O.D., 9.2-pound, J-55, 8 round EUE pup joint.

Baker Model "F" non-ported seating nipple (size 2.81).

6 feet 3-1/2-inch O.D., 9.2-pound, J-55, 8 round EUE pup joint.

Baker Model "R" non-ported no-go seating nipple (size 2.75).

Set packer so that the bottom of the assembly is 30 feet above the perforations.

Perforations will be chosen after the open-hole logging is completed.

17. Install 4-1/2-inch rams in preventer. Pick up a Baker locator seal assembly and

a Baker Model "L" sliding sleeve and run tubing as follows:

1 NSCo. DP4-H-1 tubing hanger tapped 4-1/2-inch O.D., 8 round thread, LT&C, top and bottom.

4-1/2-inch O.D., 11.6-pound, J-55, 8 round thread, LT&C pup joints as required to space out.

Approximately 187 joints 4-1/2-inch O.D., 11.6-pound, J-55, 8 round thread, LT&C tubing.

Baker Model "L" 4-1/2-inch O.D. sliding sleeve (size 3.812), in open position.

1 6 foot 4-1/2-inch O.D., 11.6-pound, J-55 pup joint.

Baker Model "G" locator seal assembly with 10 feet of seal extensions (I.D. 3.0-inches).

Land tubing in packer with 10,000 pounds compression. Space out and land in wellhead.

18. Install upper portion of wellhead.

19. Swab fluid out of wellbore. Run a short production test.

GENERAL INFORMATION

I. The following tubular goods have been assigned to the well.

<u>Description</u>	<u>Approximate Gross Measurement (feet)</u>	<u>Availability</u>
	<u>Surface Casing</u>	
9-5/8-inch O.D., 36-pound, H-40, 8 round thread, ST&C casing	330	Warehouse Stock
	<u>Production Casing</u>	
7-inch O.D., 23-pound, K-55, 8 round thread, LT&C casing (Bottom 400 feet will be rough coated)	6,100	To be purchased
	<u>Production Tubing</u>	
4-1/2-inch O.D., 11.6-pound, J-55, 8 round thread, LT&C tubing	6,300	To be purchased

II. All ram type preventers will have hand wheels installed and operative at the time the preventers are installed.

III. Well responsibility - D. L. Reese

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
GEOLOGICAL SURVEY

SUBMIT IN TRIPLICATE\*  
(Other instructions on reverse side)

Form approved.  
Budget Bureau No. 42-R1424.

SUNDRY NOTICES AND REPORTS ON WELLS

(Do not use this form for proposals to drill or to deepen or plug back to a different reservoir.  
Use "APPLICATION FOR PERMIT—" for such proposals.)

1. OIL WELL <input type="checkbox"/> GAS WELL <input type="checkbox"/> OTHER <input checked="" type="checkbox"/> Gas Storage		5. LEASE DESIGNATION AND SERIAL NO. SLC 045051 b
2. NAME OF OPERATOR Mountain Fuel Resources, Inc.		6. IF INDIAN, ALLOTTEE OR TRIBE NAME -
3. ADDRESS OF OPERATOR P. O. Box 1129, Rock Springs, Wyoming 82901		7. UNIT AGREEMENT NAME Clay Basin Gas Storage Agreement
4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements. See also space 17 below.) At surface 395' FSL, 678' FWL SW SW		8. FARM OR LEASE NAME Unit Well
14. PERMIT NO. API No.: 43-009-30021		9. WELL NO. 31-S
15. ELEVATIONS (Show whether DF, RT, GR, etc.) KB 6613.60' GR 6596'		10. FIELD AND POOL, OR WILDCAT Clay Basin Gas Storage
		11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA SW SW 23-3N-24E
		12. COUNTY OR PARISH Daggett
		13. STATE Utah

16. Check Appropriate Box To Indicate Nature of Notice, Report, or Other Data

NOTICE OF INTENTION TO:		SUBSEQUENT REPORT OF:	
TEST WATER SHUT-OFF <input type="checkbox"/>	PULL OR ALTER CASING <input type="checkbox"/>	WATER SHUT-OFF <input type="checkbox"/>	REPAIRING WELL <input type="checkbox"/>
FRACTURE TREAT <input type="checkbox"/>	MULTIPLE COMPLETE <input type="checkbox"/>	FRACTURE TREATMENT <input type="checkbox"/>	ALTERING CASING <input type="checkbox"/>
SHOOT OR ACIDIZE <input type="checkbox"/>	ABANDON* <input type="checkbox"/>	SHOOTING OR ACIDIZING <input type="checkbox"/>	ABANDONMENT* <input type="checkbox"/>
REPAIR WELL <input type="checkbox"/>	CHANGE PLANS <input type="checkbox"/>	(Other) Supplementary history <input checked="" type="checkbox"/>	
(Other) <input type="checkbox"/>		(NOTE: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)	

17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)\*

TD 6023', spudded March 22, 1977, set 9-5/8"OD, 36#, K-55, casing at 301.49' with 180 sacks regular cement treated with 3% calcium chloride, cement in place on March 23, 1977, logged, circulating prior to running casing.

18. I hereby certify that the foregoing is true and correct

SIGNED

*[Signature]*

TITLE

Manager, Drilling and Petroleum Engineering

DATE

April 4, 1977

(This space for Federal or State office use)

APPROVED BY

TITLE

DATE

CONDITIONS OF APPROVAL, IF ANY:



UNITED STATES  
DEPARTMENT OF THE INTERIOR  
GEOLOGICAL SURVEY

SUBMIT IN DUPLIC. 3\*

(See other in-  
structions on  
reverse side)Form approved.  
Budget Bureau No. 42-R355.5.

13

## WELL COMPLETION OR RECOMPLETION REPORT AND LOG \*

1a. TYPE OF WELL:		OIL WELL <input type="checkbox"/>	GAS WELL <input type="checkbox"/>	DRY <input type="checkbox"/>	Other Gas Storage <input checked="" type="checkbox"/>		
b. TYPE OF COMPLETION:		NEW WELL <input checked="" type="checkbox"/>	WORK OVER <input type="checkbox"/>	DEEP-EN <input type="checkbox"/>	PLUG BACK <input type="checkbox"/>	DIFF. RESVR. <input type="checkbox"/>	Other <input type="checkbox"/>
2. NAME OF OPERATOR						3. ADDRESS OF OPERATOR	
Mountain Fuel Resources, Inc.						P. O. Box 1129, Rock Springs, Wyoming 82901	
4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements)*						14. PERMIT NO.	
At surface 395' FSL, 678' FWL SW SW						DATE ISSUED	
At top prod. interval reported below						-	
At total depth						-	
API No.: 43-009-30021						12. COUNTY OR PARISH	
-						Daggett	
15. DATE SPUDDED						13. STATE	
3-22-77						Utah	
16. DATE T.D. REACHED						11. SEC., T., R., M., OR BLOCK AND SURVEY OR AREA	
4-3-77						SW SW 23-3N-24E	
17. DATE COMPL. (Ready to prod.)						10. FIELD AND POOL, OR WILDCAT	
4-14-77						Clay Basin Gas Storage	
18. ELEVATIONS (DF, RKB, RT, GR, ETC.)*						11. SEC., T., R., M., OR BLOCK AND SURVEY OR AREA	
KB 6613.60' GR 6596'						SW SW 23-3N-24E	
19. ELEV. CASINGHEAD						12. COUNTY OR PARISH	
-						Daggett	
20. TOTAL DEPTH, MD & TVD						13. STATE	
6023'						Utah	
21. PLUG, BACK T.D., MD & TVD						14. PERMIT NO.	
5932'						DATE ISSUED	
22. IF MULTIPLE COMPL., HOW MANY*						-	
23. INTERVALS DRILLED BY						-	
0-6023'						-	
24. PRODUCING INTERVAL(S), OF THIS COMPLETION—TOP, BOTTOM, NAME (MD AND TVD)*						25. WAS DIRECTIONAL SURVEY MADE	
5814-5867' - Dakota						No	
26. TYPE ELECTRIC AND OTHER LOGS RUN						27. WAS WELL CORED	
Dual Laterolog, Comp. Densilog, Acoustic Cement Bond						No	
28. CASING RECORD (Report all strings set in well)							
CASING SIZE		WEIGHT, LB./FT.		DEPTH SET (MD)		HOLE SIZE	
9-5/8"		36		301.49		12-1/4	
7		23		6002.64		8-3/4	
29. LINER RECORD							
SIZE		TOP (MD)		BOTTOM (MD)		SACKS CEMENT*	
30. TUBING RECORD							
SIZE		DEPTH SET (MD)		PACKER SET (MD)			
4-1/2		5646.26		5638.86			
31. PERFORATION RECORD (Interval, size and number)							
5814-5867', jumbo jet, 2 shots per foot							
32. ACID, SHOT, FRACTURE, CEMENT SQUEEZE, ETC.							
DEPTH INTERVAL (MD)				AMOUNT AND KIND OF MATERIAL USED			
33.* PRODUCTION							
DATE FIRST PRODUCTION		PRODUCTION METHOD (Flowing, gas lift, pumping—size and type of pump)				WELL STATUS (Producing or shut-in)	
SI		GAS STORAGE				SI	
DATE OF TEST		HOURS TESTED		CHOKE SIZE		PROD'N. FOR TEST PERIOD	
---							
FLOW. TUBING PRESS.		CASING PRESSURE		CALCULATED 24-HOUR RATE		OIL—BBL.	
						GAS—MCF.	
						WATER—BBL.	
						OIL GRAVITY-API (CORR.)	
34. DISPOSITION OF GAS (Sold, used for fuel, vented, etc.)						TEST WITNESSED BY	
-						-	
35. LIST OF ATTACHMENTS							
Logs as above, Well Completion to be sent at a later date.							
36. I hereby certify that the foregoing and attached information is complete and correct as determined from all available records							
Manager, Drilling and							
SIGNED		TITLE				DATE	
J. M. [Signature]		Petroleum Engineering				April 18, 1977	

\*(See Instructions and Spaces for Additional Data on Reverse Side)

# INSTRUCTIONS

**General:** This form is designed for submitting a complete and correct well completion report and log on all types of lands and leases to either a Federal agency or a State agency, or both, pursuant to applicable Federal and/or State laws and regulations. Any necessary special instructions concerning the use of this form and the number of copies to be submitted, particularly with regard to local, area, or regional procedures and practices, either are shown below or will be issued by, or may be obtained from, the local Federal and/or State office. See instructions on items 22 and 24, and 33, below regarding separate reports for separate completions.

If not filed prior to the time this summary record is submitted, copies of all currently available logs (drillers, geologists, sample and core analysis, all types electric, etc.), formation and pressure tests, and directional surveys, should be attached hereto, to the extent required by applicable Federal and/or State laws and regulations. All attachments should be listed on this form, see item 35.

**Item 4:** If there are no applicable State requirements, locations on Federal or Indian land should be described in accordance with Federal requirements. Consult local State or Federal office for specific instructions.

**Item 18:** Indicate which elevation is used as reference (where not otherwise shown) for depth measurements given in other spaces on this form and in any attachments.

**Items 22 and 24:** If this well is completed for separate production from more than one interval zone (multiple completion), so state in item 22, and in item 24 show the producing interval, or intervals, top(s), bottom(s) and name(s) (if any) for only the interval reported in item 33. Submit a separate report (page) on this form, adequately identified, for each additional interval to be separately produced, showing the additional data pertinent to such interval.

**Item 29: "Sacks Cement":** Attached supplemental records for this well should show the details of any multiple stage cementing and the location of the cementing tool.

**Item 33:** Submit a separate completion report on this form for each interval to be separately produced. (See instruction for items 22 and 24 above.)

37. SUMMARY OF POROUS ZONES: SHOW ALL IMPORTANT ZONES OF POROSITY AND CONTENTS THEREOF; CORED INTERVALS; AND ALL DRILL-STEM TESTS, INCLUDING DEPTH INTERVAL TESTED, CUSHION USED, TIME TOOL OPEN, FLOWING AND SHUT-IN PRESSURES, AND RECOVERIES			38. GEOLOGIC MARKERS			
FORMATION	TOP	BOTTOM	DESCRIPTION, CONTENTS, ETC.	NAME	MEAS. DEPTH	TRUE VERT. DEPTH
				Log tops:		
				Frontier	5452'	
				Mowry	5644'	
				Dakota	5804'	

COMPLETION REPORT

Well: Clay Basin Unit No. 31-S Date: September 27, 1977

Area: Clay Basin Lease No: SLC 045051 b

☐ New Field Wildcat ☒ Development Well ☐ Shallower Pool Test  
☐ New Pool Wildcat ☐ Gas Storage ☐ Deeper Pool Test  
☐ Extension

Location: 395 feet from South line, 678 feet from West line  
SW  $\frac{1}{4}$  SW  $\frac{1}{4}$

Section 23, Township 3 North, Range 24 East

County: Daggett State: Utah

Operator: Mountain Fuel Resources, Inc.

Elevation: KB 6613.60 Gr 6596 Total Depth: Driller 6023 Log 5948

Drilling Commenced: March 22, 1977 Drilling Completed: April 3, 1977

Rig Released: April 5, 1977 Well Completed: April 14, 1977

Sample Tops: (unadjusted)

Mancos Surface  
Frontier 5462  
Mowry  
Dakota 5796

Log Tops:

Mancos Surface  
Frontier 5452  
Mowry 5644  
Dakota 5804

Sample Cuttings: None

Status: Gas Storage Injection-Withdrawal Well

Producing Formation: Dakota

Perforations: 5814-5867, jumbo jet, 2 shots per foot

Stimulation: None

Production: None reported

Plug Back Depth: 5932

Plugs: None

Hole Size: 12-1/4" to 343; 8-3/4" to 6023

Casing/Tubing: 9-5/8" to 301.49, 7" to 6002.64; 4-1/2" to 5646.26 set in Baker  
FB-1 packer at 5638.86

Logging - Mud: None

Mechanical: Compensated Densilog (3948-5946)

Dual Laterolog (302-5936)

Contractor: Signal Drilling Company, Inc.

Completion Report Prepared by: M. L. Tomac

Remarks: API No. 4300930021

OCT 26 1977

COMPLETION REPORT (cont.)

Page 2

Well: Unit No. 31-S

Area: Clay Basin

Cored Intervals (recovery): None

Tabulation of Drill Stem Tests: None

<u>No.</u>	<u>Interval</u>	<u>IHP</u>	<u>IFP (min.)</u>	<u>ISIP (min.)</u>	<u>FFP (min.)</u>	<u>FSIP (min.)</u>	<u>FHP</u>	<u>Samples Caught</u>	<u>Remarks</u>
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## COMPLETION REPORT

Well: Clay Basin Unit No. 31-S Date: September 27, 1977

Area: Clay Basin Lease No: SLC 045051 b

<input type="checkbox"/> New Field Wildcat	<input checked="" type="checkbox"/> Development Well	<input type="checkbox"/> Shallower Pool Test
	Gas Storage	
<input type="checkbox"/> New Pool Wildcat	<input type="checkbox"/> Extension	<input type="checkbox"/> Deeper Pool Test

Location: 395 feet from South line, 678 feet from West line

$$\text{SW} \quad \frac{1}{4} \quad \text{SW} \quad \frac{1}{4}$$

Section 23, Township 3 North, Range 24 East

County: Daggett State: Utah

Operator: Mountain Fuel Resources, Inc.

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Sample Tops: (unadjusted)

Log Tops:

Mancos	Surface
Frontier	5462
Mowry	.
Dakota	5796

Mancos	Surface
Frontier	5452
Mowry	5644
Dakota	5804

Sample Cuttings: None

Status: Gas Storage Injection-Withdrawal Well

Producing Formation: Dakota

Perforations: 5814-5867, jumbo jet, 2 shots per foot

Stimulation: None

Production:       None reported

Plug Back Depth: 5932

Plugs: None

Hole Size: 12-1/4" to 343; 8-3/4" to 6023

Casing/Tubing: 9-5/8" to 301.49, 7" to 6002.64; 4-1/2" to 5646.26 set in Baker  
FB-1 packer at 5638.86

Logging - Mud: None

Mechanical: Compensated Densilog (3948-5946)  
Dual Laterolog (302-5936)

Contractor: Signal Drilling Company, Inc.

Completion Report Prepared by: M. L. Tomac

Remarks: API No. 4300930021

COMPLETION REPORT (cont.)

Page 2

Well: Unit No. 31-S

Area: Clay Basin

Cored Intervals (recovery): None

Tabulation of Drill Stem Tests: None

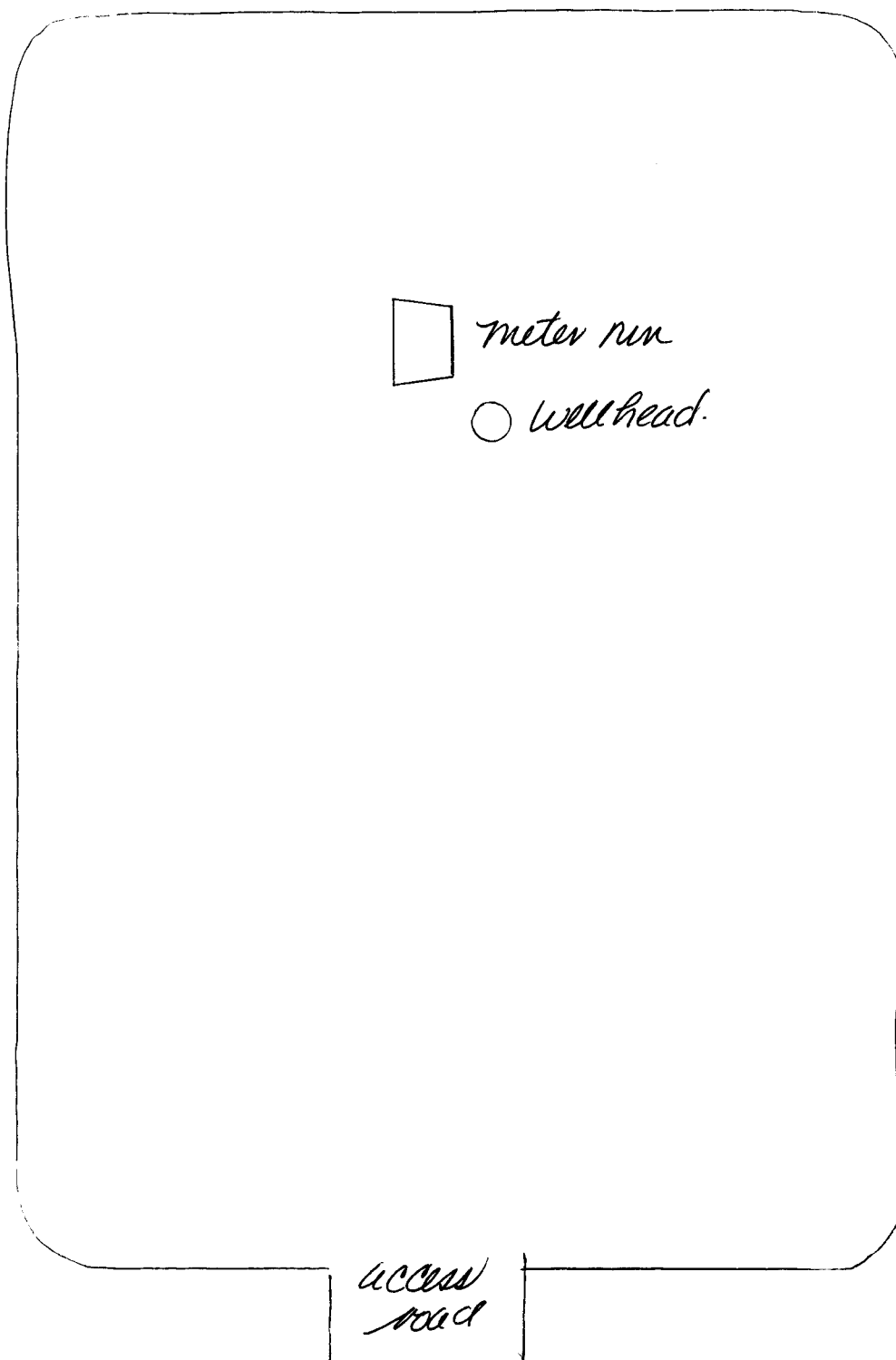
<u>No.</u>	<u>Interval</u>	<u>IHP</u>	<u>IFP (min.)</u>	<u>ISIP (min.)</u>	<u>FFP (min.)</u>	<u>FSIP (min.)</u>	<u>FHP</u>	<u>Samples Caught</u>	<u>Remarks</u>
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Clay Basin Unit # 31-8

Sec 23, 3N, 24E

Ch. 14 June 88

42 381 50 SHEETS SQUARE  
42 382 100 SHEETS SQUARE  
42 383 200 SHEETS SQUARE  
MADE IN U.S.A.



## OPERATOR CHANGE WORKSHEET

## ROUTING

1. GLH

2. CDW

3. FILE

Change of Operator (Well Sold)

Designation of Agent/Operator

**X** Operator Name Change

Merger

The operator of the well(s) listed below has changed, effective:

**3/7/1988****FROM:** (Old Operator):

N1070-Wexpro Company  
PO Box 45360  
Salt Lake City, UT 84145-0360  
Phone: 1-(801) 534-5267

**TO:** ( New Operator):

N7560-Questar Pipeline Company  
PO Box 11450  
Salt Lake City, UT 84147  
Phone: 1-(801) 530-2019

CA No.

Unit:

**WELL(S)**

NAME	SEC	TWN	RNG	API NO	ENTITY NO	LEASE TYPE	WELL TYPE	WELL STATUS
CLAY BASIN UNIT 39-S	21	030N	240E	4300930030	1025	Federal	GS	A
CLAY BASIN UNIT 48-S	21	030N	240E	4300930044	1025	Federal	GS	A
CLAY BASIN UNIT 50-S	21	030N	240E	4300930046	1025	Federal	GS	A
CLAY BASIN UNIT 51-S	21	030N	240E	4300930047	1025	Federal	GS	A
CLAY BASIN UNIT 58-S	21	030N	240E	4300930054	1025	Federal	GS	A
CLAY BASIN UNIT 60-S	21	030N	240E	4300930056	1025	Federal	GS	A
CLAY BASIN U 11 (RD MURPHY 6-W)	22	030N	240E	4300915635	1025	Federal	GS	A
CLAY BASIN 28-S	22	030N	240E	4300930021	1025	Federal	GS	A
CLAY BASIN UNIT 32-S	22	030N	240E	4300930023	1025	Federal	GS	A
CLAY BASIN UNIT 36-S	22	030N	240E	4300930027	1025	Federal	GS	A
CLAY BASIN UNIT 54-S	22	030N	240E	4300930050	1025	Federal	GS	A
CLAY BASIN U 6 (RD MURPHY 3)	23	030N	240E	4300915630	1025	Federal	GS	A
CLAY BASIN U 10 (1 CL SPARKS)	23	030N	240E	4300915634	1025	Federal	GS	A
CLAY BASIN UNIT 29-S	23	030N	240E	4300930020	1025	Federal	GS	A
CLAY BASIN UNIT 31-S	23	030N	240E	4300930022	1025	Federal	GS	A
CLAY BASIN UNIT 44-S	23	030N	240E	4300930040	1025	Federal	GS	A
CLAY BASIN UNIT 45-S	23	030N	240E	4300930041	1025	Federal	GS	A
CLAY BASIN UNIT 57-S	24	030N	240E	4300930053	1025	Federal	GS	A
CLAY BASIN UNIT 41-S	26	030N	240E	4300930032	1025	Federal	GS	A
CLAY BASIN UNIT 42-S	26	030N	240E	4300930033	1025	Federal	GS	A
CLAY BASIN UNIT 43-S	26	030N	240E	4300930039	1025	Federal	GS	A

## OPERATOR CHANGES DOCUMENTATION

Enter date after each listed item is completed

1. (R649-8-10) Sundry or legal documentation was received from the **FORMER** operator on: 1/13/20042. (R649-8-10) Sundry or legal documentation was received from the **NEW** operator on: 1/13/20043. The new company was checked on the **Department of Commerce, Division of Corporations Database** on: 1/14/20044. Is the new operator registered in the State of Utah: YES Business Number: 649172-01425. If **NO**, the operator was contacted on: \_\_\_\_\_



6. (R649-9-2)Waste Management Plan has been received on: IN PLACE

7. **Federal and Indian Lease Wells:** The BLM and or the BIA has approved the merger, name change, or operator change for all wells listed on Federal or Indian leases on: 3/9/1989

8. **Federal and Indian Units:**

The BLM or BIA has approved the successor of unit operator for wells listed on: n/a

9. **Federal and Indian Communization Agreements ("CA"):**

The BLM or BIA has approved the operator for all wells listed within a CA on: n/a

10. **Underground Injection Control ("UIC"** The Division has approved UIC Form 5, **Transfer of Authority to Inject**, for the enhanced/secondary recovery unit/project for the water disposal well(s) listed on: N/A

**DATA ENTRY:**

1. Changes entered in the **Oil and Gas Database** on: 1/29/2004
2. Changes have been entered on the **Monthly Operator Change Spread Sheet** on: 1/29/2004
3. Bond information entered in RBDMS on: 1/29/2004
4. Fee wells attached to bond in RBDMS on: 1/29/2004
5. Injection Projects to new operator in RBDMS on: n/a

**STATE WELL(S) BOND VERIFICATION:**

1. State well(s) covered by Bond Number: 965003032

**FEDERAL WELL(S) BOND VERIFICATION:**

1. Federal well(s) covered by Bond Number: 965002976

**INDIAN WELL(S) BOND VERIFICATION:**

1. Indian well(s) covered by Bond Number: n/a

**FEE WELL(S) BOND VERIFICATION:**

1. (R649-3-1) The **NEW** operator of any fee well(s) listed covered by Bond Number 965003033

2. The **FORMER** operator has requested a release of liability from their bond on: N/A  
The Division sent response by letter on: N/A

**LEASE INTEREST OWNER NOTIFICATION:**

3. (R649-2-10) The **FORMER** operator of the fee wells has been contacted and informed by a letter from the Division of their responsibility to notify all interest owners of this change on: 1/29/2004

**COMMENTS:**

3100  
U-09712-A  
et al  
(U-942)

*C. Seare*  
3/9/89

### DECISION

Questar Pipeline Company : Oil and Gas Leases  
P.O. Box 11450 : U-09712-A et al  
Salt Lake City, Utah 84147 :

#### Corporate Name Change Recognized

Acceptable evidence has been received establishing that Mountain Fuel Resources, Inc. has changed their name to Questar Pipeline Company. Accordingly, the surviving company, Questar Pipeline Company, is recognized as holding all interests in Federal oil and gas leases which were held by Mountain Fuel Resources, Inc. We are changing our records with respect to the attached listing of oil and gas leases. If there are any other leases that will be affected, please contact this office.

**/s/ M. Willis**

**ACTING** Chief, Minerals  
Adjudication Section

Enclosure  
List of Leases

cc: All District Offices, Utah  
MMS, AFS  
MMS, BRASS  
920, Teresa Thompson  
Clay Basin Unit File

CSeare:sl 3/9/89:1642f

RECEIVED

JAN 28 2004

DIV. OF OIL, GAS & MINING

List of Leases

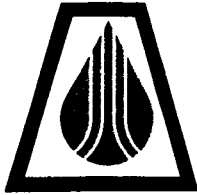
Overriding Royalties

U-09712-A  
U-011246

Operating Rights

SL-045051-A & B  
SL-045053-A & B  
SL-062508  
SL-0700555  
SL-070555-A  
SL-045049-A & B

Clay Basin Gas Storage Agreement  
Agreement No. 14-08-0001-16009



## QUESTAR PIPELINE COMPANY

79 SOUTH STATE STREET • P. O. BOX 11450 • SALT LAKE CITY, UTAH 84147 • PHONE (801) 530-2400  
June 23, 1988

CERTIFIED MAIL

RETURNED RECEIPT REQUESTED

#P 879 571 459

Bureau of Land Management  
Utah State Office  
CFS Financial Center  
324 S. State Street  
Salt Lake City, UT 84111-2303

Re: Name Change  
Mountain Fuel Resources, Inc.  
to Questar Pipeline Company

Gentlemen:

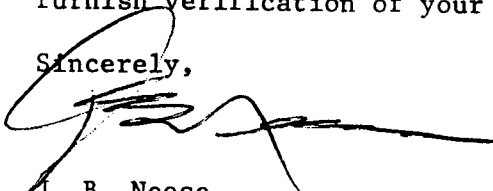
Enclosed for your files and information is a certified copy of the Articles of Amendment to the Articles of Incorporation of Mountain Fuel Resources, Inc. dated March 7, 1988, indicating that Mountain Fuel Resources, Inc. changed its name to Questar Pipeline Company.

Questar Pipeline Company holds interests in the following Federal Oil and Gas Leases in Utah:

*Notes on gas hold. with CA*  
CA well - RT, OR's Mt. Fuel Resources - U-9712-A - Questar 100%  
U-11246 - Assignment pending to "Questar Energy Co."  
SLC-045051(A) > OR'S  
SLC-045051(B) > OR'S  
SLC-045053(A) > OR'S  
SLC-045053(B) > OR'S  
SLC-062508 - OR'S  
SLC-070555 - OR'S  
SLC-070555(A) - OR'S  
? Agreement No. 14-08-0001-16009  
(Clay Basin Gas Storage Agreement)

Please note and adjust your records in accordance with the above and furnish verification of your receipt of this notice to the undersigned.

Sincerely,

  
J. B. Neese  
Senior Landman

JBN/sdg

Enclosure

### NEW ENTITY NUMBERS ASSIGNED FEBRUARY 2004

ACCT	OPERATOR NAME	API NUM.	Sec	Twtnshp	Rng	WELL NAME	ENTITY	EFF DATE	REASON
N7560	Questar Pipeline Co	4300930050	22	030N	240E	Clay Basin Unit 54-S	1025 to 14040	2/10/2004	Clay Basin Gas Storage
N7560	Questar Pipeline Co	4300915630	23	030N	240E	Clay Basin U 6 (RD Murphy	1025 to 14040	2/10/2004	Clay Basin Gas Storage
N7560	Questar Pipeline Co	4300915634	23	030N	240E	Clay Basin U 10 (1 CL Sparks	1025 to 14040	2/10/2004	Clay Basin Gas Storage
N7560	Questar Pipeline Co	4300930020	23	030N	240E	Clay Basin Unit 29-S	1025 to 14040	2/10/2004	Clay Basin Gas Storage
N7560	Questar Pipeline Co	4300930022	23	030N	240E	Clay Basin Unit 31-S	1025 to 14040	2/10/2004	Clay Basin Gas Storage
N7560	Questar Pipeline Co	4300930040	23	030N	240E	Clay Basin Unit 44-S	1025 to 14040	2/10/2004	Clay Basin Gas Storage
N7560	Questar Pipeline Co	4300930041	23	030N	240E	Clay Basin Unit 45-S	1025 to 14040	2/10/2004	Clay Basin Gas Storage
N7560	Questar Pipeline Co	4300930053	24	030N	240E	Clay Basin Unit 57-S	1025 to 14040	2/10/2004	Clay Basin Gas Storage
N7560	Questar Pipeline Co	4300930032	26	030N	240E	Clay Basin Unit 41-S	1025 to 14040	2/10/2004	Clay Basin Gas Storage
N7560	Questar Pipeline Co	4300930033	26	030N	240E	Clay Basin Unit 42-S	1025 to 14040	2/10/2004	Clay Basin Gas Storage
N7560	Questar Pipeline Co	4300930039	26	030N	240E	Clay Basin Unit 43-S	1025 to 14040	2/10/2004	Clay Basin Gas Storage
N7560	Questar Pipeline Co	4300930042	26	030N	240E	Clay Basin Unit 46-S	1025 to 14040	2/10/2004	Clay Basin Gas Storage
N7560	Questar Pipeline Co	4300930051	26	030N	240E	Clay Basin Unit 55-S	1025 to 14040	2/10/2004	Clay Basin Gas Storage
N7560	Questar Pipeline Co	4300930052	26	030N	240E	Clay Basin Unit 56-S	1025 to 14040	2/10/2004	Clay Basin Gas Storage
N7560	Questar Pipeline Co	4300915628	27	030N	240E	Clay Basin U 4 (ES Lauzer 1)	1025 to 14040	2/10/2004	Clay Basin Gas Storage
N7560	Questar Pipeline Co	4300930025	27	030N	240E	Clay Basin Unit 34-S	1025 to 14040	2/10/2004	Clay Basin Gas Storage
N7560	Questar Pipeline Co	4300930028	27	030N	240E	Clay Basin Unit 37-S	1025 to 14040	2/10/2004	Clay Basin Gas Storage
N7560	Questar Pipeline Co	4300930029	27	030N	240E	Clay Basin Unit 38-S	1025 to 14040	2/10/2004	Clay Basin Gas Storage
N7560	Questar Pipeline Co	4300930043	27	030N	240E	Clay Basin Unit 47-S	1025 to 14040	2/10/2004	Clay Basin Gas Storage

Note to file: These entity numbers  
were changed to compliment the  
operator correction from 3/7/98